



HF Happenings

Volume 14, Issue 38

No 715

the week of 1 August 2016

You can now download your copy of HF Happenings from www.sarl.org.za/hf_happenings.asp.

South African Radio League HF Phone Contest

The aim of the HF Phone Contest is for participants to contact as many amateurs in Southern Africa as possible on one or more of the 20, 40 and 80 m amateur bands. The Phone Contest takes place from 13:00 to 16:30 UTC on Sunday 7 August 2016 with activity on 14 125 to 14 300 kHz, 7 063 to 7 100 and 7 130 to 7 200 kHz and 3 603 to 3 650 and 3 700 to 3 800 kHz.

You can participate as a Single Operator Single Band station, a Single Operator All Band station, a Multi Operator Single Band station or a Multi Operator All Band station. Individual competitors and club stations are encouraged to compete. The exchange is a RS report and a consecutive serial number starting at 001. According to Rule 5.(c) of the General Rules states, "However, a multi-operator station transmitting on several bands simultaneously may at their discretion use separate number sequences for each band."

Phone contacts count 1 point. Count two points for each area (see below) on each band and count 2 points for each station contacted on all three bands.

Area 1: ZS1 Western Cape

Area 2: ZS2 Eastern Cape

Area 3: ZS3 Northern Cape

Area 4: ZS4 Free State

Area 5: ZS5 KwaZulu-Natal

Area 6: ZS6 Gauteng, Mpumalanga; Limpopo and North West

Area 7: 3DA Swaziland, 7P Lesotho, C9 Mozambique, Z2 Zimbabwe, ZS8 Marion Island

Area 8: 9J Zambia, A2 Botswana, V5 Namibia, ZD9 Gough and Tristan da Cunha Islands, ZS7 Antarctica

Area 9: DX

Certificates are awarded to the first three places and the highest single band score in the contest. Silent Keys Memorial Trophy SSB - awarded by the Contest Committee to the amateur who achieves the highest score during the annual South African Radio League HF Phone Contest and the Joseph White Trophy - awarded by the Contest Committee to the amateur who achieves the highest score on any one band, during the annual South African Radio League HF Phone Contest.

Submit your log in ADIF, Cabrillo or MS Excel format and labelled "your call sign HF Phone," by 14 August 2016 by e-mail to zs4bfn@mweb.co.za

South African Radio League YL Sprint - 9 August 2016

This is a fun activity to celebrate National Women's Day and to encourage YLs to meet and greet 'on-air'. All contacts are valuable - please join us. Call "YL Sprint!" between 09:00 to 10:00 UTC or 11:00 to 12:00 CAT. It is a phone sprint on the 40-metre band (7 063 to 7 100 and 7 130 to 7 200 kHz). The exchange is a RS report and YL or OM.

Scoring - Contacts between YL stations are worth 5 points; contacts between YL and OM stations are worth 3 points, and contacts be-



South African Radio League * Suid-Afrikaanse Radioliga
Member Society of the International Amateur Radio Union since 1925



tween OM stations are worth 1 point.

Submit your log, labelled "call sign YL Sprint," in ADIF, Cabrillo or MS Excel format by 16 August 2016 to zs4bfm@mweb.co.za

Results of the ZS Sprint

The ZS2 Sprint, which took place on Sunday 24 July, was a great success with QSOs from all over the country making it a fun event enjoyed by all. The Contest Committee received fifteen logs.

1st Colette Rundle, ZS2CR, 152 points

2nd Port Elizabeth ARS, ZS2PE, (operated by Theunis Potgieter, ZS2EC) 119 points

3rd Barry Nugent, ZS2NF, 92 points

4th Andrew Gray, ZS2G 53 points

5th Dave Higgs, ZS2DH 49 points

6th Pam Momberg, ZS6APT and Sydney Smith, ZS1TMJ, 35 points each

8th East Rand Branch, ZS6ERB, and Pieter Jacobs, ZS6XT, 29 points each

10th Johan van Zijl, ZS4DZ, 22 points

11th Andre du Plessis, ZR6AGA, and Kempton Park ARTS, ZS6KTS, 21 points each

13th Mike Stokes, ZS6AI, 18 points

14th Stephen van Jaarsveld, ZS6SVJ, 9 points

15th Pieter Jacobs, V51PJ, 6 points

PEARS would like to thank those who took part and sent in their logs. Certificates will be awarded for the first three places.

Ham Radio 2016 in Friedrichshafen Attracts a Bumper Crowd

Attendance was up slightly this year at Europe's largest Amateur Radio gathering, the 41st annual international Ham Radio 2016 in Friedrichshafen, Germany. Officials at the venue, Die Messe Friedrichshafen, say "everything went perfectly" as amateurs joined "makers" for the 24 to 26 June weekend. The "double feature" exposition attracted 17 230 visitors, up from 17 080 last year. Die Messe officials did not break out numbers for radio amateurs and those attending the Maker Faire Bodensee.

Nearly 200 exhibitors and vendors from 3 dozen countries were on hand at Friedrichshafen. Like Hamvention, Ham Radio is better known by its location.

"Friedrichshafen is like Europe's Dayton for us," said Yaesu Technical Sales Manager Paul Bigwood, G3WYW. "The Ham Radio is extremely international. Everyone here comes from all over the world; we even had visitors from Australia at our stand. The show has an excellent reputation; it is very important for us to be here."

IARU Region 1 Emergency Coordinator Greg Mossop, G0DUB, said two meetings at Friedrichshafen for radio amateurs involved in emergency communication were well received. On Friday 24 June, the first IARU Region 1 Emergency Communication meeting attracted some 20

August

4 to 6 - !Naba Food and Wine Festival Upington

6 - Thabazimbi Apiesdoring Carnival

7 – SARC HF Phone Contest

9 – National Women's Day; SARC YL Sprint

12 to 14 – West Coast Craft Festival, Velddrif

14 – SARC Youth Net

20 and 21 – International Lighthouse and Lightship Weekend

21 – SARC HF Digital Contest

23 - Closing date for September Radio ZS articles

26 and 27 – Hantam Vleisfees, Calvinia

28 – SARC HF CW Contest



attendees from 10 countries. Topics covered a wide range and included reports from other regions, proposals to change the IARU Emergency Message procedure, and information on emergency communication groups in Germany, Poland and Slovenia. The presentations are available on the IARU Region 1 website (click on "Order by Submit Date" to see the 2016 documents www.iaru-r1.org/index.php/downloads/Documents/Emergency-Communications/).



Many younger radio amateurs turned out at Friedrichshafen for Ham Radio 2016.

Two veteran International Amateur Radio Union Region 1 volunteers were honoured at Friedrichshafen. IARU President Tim Ellam, VE6SH, and Vice President Ole Garpestad, LA2RR, presented Christian Verholt, OZ8CY, the former Chair of the Electromagnetic Compatibility (EMC) Working Group and former EMC Advisor to the IARU International Secretariat, with the IARU President's Diamond Award. This new award recognizes exceptional contributions over many years.

Christian also received the IARU Region 1 Medal from Region 1 President Don Beattie, G3BJ, in recognition of his work on EMC matters in Region 1 for more than 20 years. Don presented Wolfgang Hadel, DK2OM, with the Region 1 Medal in recognition of his ongoing, exceptional leadership of the successful IARU Region 1 Monitoring System (IARUMS).

Due to a scheduling difficulty, Ham Radio 2017 will take place from 14 to 16 July 2017.

DXCC Changes

From the latest minutes at the recent ARRL Board meeting:

28. Dr Woolweaver moved, seconded by Dr Boehner that "a one-time non-endorsable DXCC Award similar to the QRP DXCC be offered for contacts made from vehicles - the Mobile DXCC Award." After discussion, the motion was ADOPTED.

30. On the motion of Dr Boehner, seconded by Mr Allen, it was VOTED that -

An optional paper certificate be offered for those who achieve Honour Roll, or #1 Honour Roll in the DXCC Program. In the DXCC Rules, Section 1 Basic Rules, part 1(u), the following sentence -

"Honour Roll qualifiers receive an Honour Roll endorsement sticker for their DXCC certificate and are eligible for an Honour Roll lapel pin and an Honour Roll plaque."

Is changed to read -

"Honour Roll qualifiers receive an Honour Roll endorsement sticker for their DXCC certificate and are eligible for an Honour Roll lapel pin, a paper certificate and an Honour Roll plaque."

In the DXCC Rules, Section 1 Basic Rules, part 1(v), the following sentence -

"#1 Honour Roll qualifiers receive a #1 Honour Roll endorsement sticker for their DXCC certificate and are eligible for a #1 Honour Roll plaque and a #1 Honour Roll lapel pin."

Is changed to read -

"#1 Honour Roll qualifiers receive a #1 Honour Roll endorsement sticker for their DXCC certificate and are eligible for a #1 Honour Roll pin, a paper certificate and a #1 Honour Roll plaque."

Dayton Hamvention® 2017 News Update

The Dayton Amateur Radio Association (DARA) regrets to inform our many vendors, visitors and stakeholders that, unfortunately, HARA has announced the closing of their facility. We have begun execution of our contingency plan to move Hamvention® 2017 to a new home.

DARA and Hamvention® have enjoyed many successful years working together with HARA Arena and we wish the Wampler family the best.

DARA and Hamvention® have been working on a contingency plan in the event HARA would become unavailable. We have spent many hours over the last few years evaluating possible locations and have found one in the area we believe will be a great new home! Due to logistics and timing issues, we will make a formal announcement introducing our new partner. This information will be coming soon. We all believe this new venue will be a spectacular place to hold our beloved event. Please rest assured we will have the event on the same weekend and, since it will be in the region, the current accommodations and outside events already planned for Hamvention 2017 should not be affected.

We look forward to your continued support as we move to a new future with The Dayton Hamvention®.

Ron Cramer, General Chairman, Dayton Hamvention 2017

African DX

Africa DX Net - every Saturday afternoon from 14:00 UTC on 14,260 MHz hosted by Mike, V51MA, Leon, A25SL, and Tinus, ZS6MHK.

Mali, TZ. Laurent, F5IXR, will be active again as TZ5XR from Kidal, Mali between 1 August and February 2017. He will be active on 160 to 6 metres using CW and phone in his spare time. QSL via F5MXH and LoTW.

Kenya, 5Z. Reiner, DL7KL, and Tom, DJ6TF, will be active as 5Z4/DL7KL and 5Z4/DJ6TF, respectively from Kenya between 16 and 30 November. Activity will be on 80 to 10 metres using CW, SSB and possibly RTTY. They will also be an entry in the CQ WW DX CW Contest (26 and 27 November). QSL via their home call signs.

Libya, 5A. Abubaker, 5A1AL, is active currently on HF (CW and SSB). Randy, W5UE, took over as Abubaker's QSL manager, effective 30 July. Log data will also be uploaded to LoTW after an online QSL request.

Nigeria, 5N. Martin, LW9DTR, will be active on 6 and 7 August as 5N/LW9DTR on 20, 15 and 10 m using SSB and JT65. QSL via LW9DTR direct.

African Islands

IOTA frequencies

CW: 28 040 24 920 21 040 18 098 14 040 10 114 7 030 3 530 kHz

SSB: 28 560 28 460 24 950 21 260 18 128 14 260 7 055 3 760 kHz



Tanzania, 5H. Members of the Ukrainian DX Team (UDXT), Alex, UXOLL, and Alex, UT5UY, will be active as 5H1XX from Zanzibar Island (AF-032) between 13 and 22 August. Activity will be on various bands and modes. QSL via MOURX. QRSS and log search on www.mOurx.com.

Contest Calendar

This week's contests as compiled by Bruce Horn, WA7BNM. The period covered is 1 to 8 August 2016

ARS Spartan Sprint

01:00 - 03:00 UTC 2 August

Mode: CW

Bands: 80, 40, 20, 15, 10 m

Classes: Skinny; Tubby

Max power: 5 watts

Exchange: RST, state, province or country and power

Work stations: Once per band

Submit logs by: 4 August 2016

E-mail logs to: spartansprint@yahoo.com

Mail logs to: (none)

Find rules at:

<http://arsqrp.blogspot.com/2009/02/so-whats-spartan-sprint-and-how-do-i.html>

Phone Fray

02:30 - 03:00 UTC 3 August

Mode: SSB

Bands: 160, 80, 40, 20, 15 m

Classes: Single Op

Max power: 100 watts

Exchange: NA: Name, state, province or country; non-NA: Name

Work stations: Once per band

QSO Points: NA station: 1 point per QSO; non-NA station: 1 point per QSO with an NA station

Multipliers: Each US state (including KH6/KL7) once per band; Each VE province/territory once per band; Each North American country (except W/VE) once per band

Score Calculation: Total score = total QSO points x total mults

Submit logs by: 03:00 UTC 5 August 2016

E-mail logs to: (none)

Post log summary at:

<http://www.3830scores.com>

Mail logs to: (none)

Find rules at:

http://www.perluma.com/Phone_Fray_Contest_Rules.pdf

CWops Mini-CWT Test

13:00 - 14:00 UTC and 19:00 - 20:00 UTC 3

August and 03:00 - 04:00 UTC 4 August

Mode: CW

Bands: 160, 80, 40, 20, 15, 10 m

Classes: Single Op - QRP, low or high

Max power: HP: >100 watts; LP: 100 watts; QRP: 5 watts

Exchange: Member: Name and member no; non-Member: Name and state, province or country

Work stations: Once per band

QSO Points: 1 point per QSO

Multipliers: Each call once

Score Calculation: Total score = total QSO points x total mults

Submit logs by: 04:00 UTC 6 August 2016

Post log summary at:

<http://www.3830scores.com>

Mail logs to: (none)

Find rules at:

<http://www.cwops.org/cwt.html>

NRAU 10 m Activity Contest

17:00 - 18:00 UTC (CW) and 18:00 - 19:00 UTC (SSB) and 19:00 - 20:00 UTC (FM) and 20:00 - 21:00 UTC 4 August (Dig)

Mode: CW, SSB, FM, Digital

Bands: 10 m Only

Classes: (none)

Exchange: RS(T) and 6-character grid square

QSO Points: (see rules)

Multipliers: (none)

Score Calculation: Total score = total QSO points

Submit logs by: 18 August 2016

Upload log at:

http://ua9qcq.com/en/submit_log.php?lang=en

Mail logs to: (none)

Find rules at: <http://www.nrau.net/activity-contests/below-30mhz.html>

QRP Fox Hunt

01:00 - 02:30 UTC 5 August

Mode: CW
Bands: 20 m Only
Classes: Single Op - fox or hound
Max power: 5 watts
Exchange: RST, state, province or country, name and power output
QSO Points: 1 point per QSO
Multipliers: (none)
Score Calculation: Total score = total QSO points
Submit logs by: 02:30 UTC 6 August 2016
E-mail logs to: (see rules)
Mail logs to: (none)
Find rules at:
http://www.grpfoxyhunt.org/summer_rules.htm

NCCC RTTY Sprint
01:45 - 02:15 UTC 5 August
Mode: RTTY
Bands: (see rules)
Classes: (none)
Exchange: Serial no, name and QTH
Score Calculation: Total score = total QSO points x total mults
Submit logs by: 7 August 2016
E-mail logs to: (none)
Post log summary at:
<http://www.3830scores.com/>
Mail logs to: (none)
Find rules at:
<http://www.ncccsprint.com/rttyns.html>

NCCC Sprint
02:30 - 03:00 UTC 5 August
Mode: CW
Bands: (see rules)
Classes: (none)
Exchange: Serial no, name and QTH
Score Calculation: Total score = total QSO points x total mults
Submit logs by: 7 August 2016
E-mail logs to: (none)
Post log summary at:
<http://www.3830scores.com/>
Mail logs to: (none)
Find rules at:
<http://www.ncccsprint.com/rules.html>

TARA Grid Dip Shindig

00:00 - 24:00 UTC 6 August
Mode: PSK, RTTY
Bands: 160, 80, 40, 20, 15, 10, 6 m
Classes: High Power; Low Power; QRP; SWL
Exchange: Name and 4-character grid square
Work stations: Once per band
QSO Points: 1 point per QSO
Multipliers: Each grid square once per band
Score Calculation: Total score = total QSO points x total mults
Submit logs by: 3 September 2016
E-mail logs to: (none)
Post log summary at:
http://www.n2ty.org/seasons/tara_grid_scores.html
Mail logs to: (none)
Find rules at:
http://www.n2ty.org/seasons/tara_grid_rules.html

10-10 International SSB Summer Contest
00:01 UTC 6 August to 23:59 UTC 7 August
Mode: SSB
Bands: 10 m Only
Classes: Individual; Club; QRP
Max power: non-QRP: >5 watts; QRP: 5 watts
Exchange: 10-10 Member: Name, 10-10 number and state, province or country; Non-Member: Name, O and state, province or country
QSO Points: 1 point per QSO with a non-member; 2 points per QSO with a 10-10 member
Multipliers: (none)
Score Calculation: Total score = total QSO points
Submit logs by: 22 August 2016
E-mail logs to: tentencontest@ten-ten.org
Mail logs to: Dan Morris, KZ3T, 3162 Covington Way, Lenoir, NC 28645, USA
Find rules at: <http://www.ten-ten.org/index.php/activity/2013-07-22-20-26-48/qso-party-rules>

European HF Championship
12:00 - 23:59 UTC 6 August
Mode: CW, SSB
Bands: 160, 80, 40, 20, 15, 10 m
Classes: CW Only - high or low; SSB Only - high or low; Mixed - high or low; SWL

Max power: HP: 1 500 watts; LP: 100 watts
Exchange: RS(T) and 2-digit year first licensed
Work stations: Once per band per mode
QSO Points: 1 point per QSO
Multipliers: Each 2-digit year licensed once per band
Score Calculation: Total score = total QSO points x total mults
Submit logs by: 15 August 2016
Upload log at:
http://lea.hamradio.si/~scc/euhf/euhf_log_submission.htm
Mail logs to: (none)
Find rules at:
<http://lea.hamradio.si/~scc/euhf/euhfcrules.htm>

North American CW QSO Party
18:00 UTC 6 August to 05:59 UTC 7 August
Mode: CW
Bands: 160, 80, 40, 20, 15, 10 m
Classes: Single Op - QRP or low; Multi-Two - low
Max operating hours: Single Op: 10 hours;
Multi-Two: 12 hours
Max power: LP: 100 watts; QRP: 5 watts
Exchange: NA: Name and state, province or country; non-NA: Name
Work stations: Once per band
QSO Points: NA station: 1 point per QSO;
non-NA station: 1 point per QSO with an NA station

Multipliers: Each US state (including KH6/KL7) once per band; Each VE province/territory once per band; Each North American country (except W/VE) once per band
Score Calculation: Total score = total QSO points x total mults
Submit logs by: 05:59 UTC 14 August 2016
E-mail logs to: (none)
Upload log at:
<http://www.ncjweb.com/naqplogsubmit/>
Mail logs to: Chris Hurlbut, KL9A, 1733 E.
Broad Ave., Spokane, WA 99207, USA
Find rules at:
<http://www.ncjweb.com/NAQP-Rules.pdf>

SARL HF Phone Contest
13:00 - 16:30 UTC 7 August
Mode: SSB
Bands: 80, 40, 20 m
Classes: Single Op All Band; Single Op Single Band; Multi-Op All Band; Multi-Op Single Band
Exchange: RS and serial no
Score Calculation: (see rules)
Submit logs by: 14 August 2016
E-mail logs to: zs4bfm@mweb.co.za
Mail logs to: (none)
Find rules at:
http://www.sarl.org.za/Web3/Members/DoD_ocDown-load.aspx?X=20151130131559djqp8afPgb.PDF

Next Week's Contests

NAQCC CW Sprint, 00:30 - 02:30 UTC 10 August
Phone Fray, 02:30 - 03:00 UTC 10 August
CWops Mini-CWT Test, 13:00 - 14:00 UTC, 19:00 - 20:00 UTC 10 August 03:00 - 04:00 UTC 11 August
RSGB 80 m Club Sprint, CW, 19:00 - 20:00 UTC 10 August
QRP Fox Hunt, 01:00 - 02:30 UTC 12 August
NCCC RTTY Sprint, 01:45 - 02:15 UTC 12 August
NCCC Sprint, 02:30 - 03:00 UTC 12 August
WAE DX Contest, CW, 00:00 UTC 13 August to 23:59 UTC 14 August
SKCC Weekend Sprintathon, 12:00 UTC 13 August to 24:00 UTC 14 August
Maryland-DC QSO Party, 16:00 UTC 13 August to 04:00 UTC 14 August and 16:00 - 24:00 UTC 14 August

VHF Happenings

While The HF Bands Are Dead VHF Is Very Much Alive

Carl Minne, ZS6CBQ, at Krugersdorp reports that while the HF bands are dead with mostly poor conditions, VHF is very much alive. He was on 144,300 MHz during the week from about 19:30 CAT and every evening there were a few stations on the air such as ZS6BUN, ZR6CMG, ZS6QTF, ZS6CBQ, ZS6UB, ZS6BSB and Keith, ZS6TW, on Friday evening. Please try calling on this frequency if you are in the Gauteng area when you do not hear anything on HF.

"Saturday and Sunday mornings we concentrate on working far away stations: Rickus, ZS4A, in Bethlehem, Pierre, ZS4PF, in Welkom, Michael, ZR4MF, in Bloemfontein, also stations from Kriel, Secunda, Ermelo and Phalaborwa. Rickus is also reporting that he is helping a few stations to build antennas and soon we can look out for more stations from Div. 4

"This Sunday morning 24 July I worked Pieter, ZS4PAW, in Koppies using a Slim Jim with reports of 5/1 to 5/5, conditions were not very good. Pieter has almost finished a horizontal Yagi and hoping to hear him 5/9 in the near future. Quintin, ZS6QTH, at Onderstepoort also managed to make a contact with ZS4A, but conditions were just not good enough for Jaco, ZR6CMG, to log the contact. Pierre, ZS4PF, from Welkom was 5/9 at Krugersdorp, he logged Rickus and was heard in Pretoria by Jaco and Quintin but the fast and deep QSB from Tropo Scatter did not allow them to make a contact. Come and join the fun on weekends and during the week."

New Transatlantic Tests Starting Between Namibia and Brazil in August

Pieter Jacobs, V51PJ, in Namibia and Marcos Jose Da Silva Almeida, PY1MHZ, in Brazil will be running daily skeds throughout August 2016 and attempt to make the first-ever two-way contact across the Atlantic Ocean on 144 MHz.

Pieter is equipped with 2 x 13 element stacked Yagi array and 1,2 kilowatt of power, whereas Marcos will be using a 43 element horizontal Yagi at his seaside holiday home. Pieter says they will test around sunrise at Namibia and again at sunset at Brazil when cool air across the Atlantic could enhance Tropo Ducting.

Apparently there will be several amateurs along the East coast of South America who would be monitoring the signals, as well as a few along our West coast as far down as Cape Town. The bridging of the Atlantic has been attempted many times before without success, and the Brendan Trophy has been waiting for years in Belfast for the first amateurs to accomplish it!

Sisters launch 2nd craft to near-space

Seattle sisters, Rebecca and Kimberly Yeung, aged 11 and 9 launched their second craft, carrying an amateur radio APRS transmitter KI7CSK-11, into near-space. They launched their first homemade balloon "spacecraft" last September. The feat got them invited to the annual White House Science Fair.

Last weekend they conducted their second launch, this time near the town of George. Their balloon reached a new height - more than 100,000 feet into the sky. The young scientists say they measured temperature changes as the craft entered different parts of the atmosphere and tracked the sun's UV waves.

The craft carried a LEGO "R2D2" action figure from "Star Wars: The Force Awakens," along with a picture of Loki, the sisters' cat.

KI7CSK-11 APRS track <http://aprs.fi/#!mt=roadmap&z=15&call=a%2FKI7CSK-11&timerange=3600&tail=3600>

Read the full story at

www.king5.com/news/local/seattle-sisters-launch-second-craft-into-space/284830111

WAB 144 MHz Low Power Phone

14:00 - 18:00 UTC 6 August

Mode: Phone

Bands: 2 m Only

Classes: Single Op - fixed, mobile or portable; Multi-Op - fixed, mobile or portable; SWL - fixed, mobile or portable

Max power: 10 watts

Exchange: British Isles: RS, serial no and WAB square; Other: RS, serial no and country

QSO Points: (see rules)

Multipliers: (see rules)

Score Calculation: Total score = total QSO points x total mults

Submit logs by: 27 August 2016

E-mail logs to:

g3xkt@worked-all-britain.org.uk

Mail logs to: Tony Beardsley, G3XKT, 14 York Avenue, Sandiacre, Nottingham NG10 5HB, United Kingdom

Find rules at:

<http://wab.intercip.net/Contest%20Rules.php#OtherRules>

August UHF Contest

18:00 UTC 6 August to 18:00 UTC 7 August

Mode: All

Bands: 222 MHz and up

Classes: Single Op - high or low; Rover; Limited Rover; Unlimited Rover; Multi-Op

Max power: HP: >100 W on 222/432 MHz, >10 W on 902 MHz and above

LP: 100 W on 222/432 MHz, 10 W on 902 MHz and above

Exchange: 4-character grid square

Work stations: Once per band per grid square

QSO Points: 3 points per 222/432 MHz

QSO; 6 points per 902/1296 MHz QSO; 12 points per 2,3 GHz and higher QSO

Multipliers: Each grid square once per band

Score Calculation: Total score = total QSO points x total mults

Submit logs by: 18:00 UTC 6 September 2016

E-mail logs to: AugustUHF@kkn.net

Mail logs to: August UHF Contest, John Kalenowsky, K9JK, 58 N. Oak St., Palatine, IL 60067, USA

Find rules at:

<http://www.uhfcontest.org/uhfrules.htm>

MMMonVHF/DUBUS 144 MHz Meteor Scatter Sprint Contest, 22:00 UTC 11 August to 22:00 UTC 13 August

50 MHz Fall Sprint, 23:00 UTC 13 August to 03:00 UTC 14 August

Items used with acknowledgement to the ARRL Letter, the ARRL DX News, the ARRL Contest Update, OPDX Bulletin, 425 DX Bulletin, DXNL Newsletter, WIA-News, the RSGB News, DxCoffee, Southgate ARC News, DX World and the Amateur Radio Newsletter